

Emmanuel Adewale ADEDOKUN

(B.Eng., MSc, Ph.D., R. COREN, MNSE, MNCS, MIEEE, CCNA, CCAI, CCSA)

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PROFESSIONAL SUMMARY

Highly accomplished academic and network engineering professional with over **20 years of experience** in network architecture, security, and large-scale enterprise network management. Proven expertise in **LAN/WAN design, SD-WAN, firewall administration, VPN solutions**, and **network security**. Extensive experience in conducting **end-to-end network assessments, performance tuning**, and **security evaluations**. Adept at translating technical findings into actionable business recommendations.

Holds a **Ph.D. in Electrical Engineering (Network Security)** and multiple certifications, including **Cisco Certified Network Associate (CCNA)**, **Checkpoint Certified Security Administrator**, and **Certified Mikrotik Engineer**. Strong leadership experience in both academic and professional environment, including serving as a **Non-Executive Director at AFRINIC** and **National Coordinator of the Nigerian network Operators Group (ngNOG)**.

CORE COMPETENCIES

- **Network Design & Implementation:** Expertise in architecting, deploying, and optimizing complex network solutions, including **LAN/WAN, wireless networks**, and **SD-WAN**.
 - **Network Security:** Proficient in **firewall administration** across multiple platforms (Cisco, Palo Alto, Fortinet), **IDS/IPS solutions**, and **endpoint security**.
 - **Routing & Switching:** Advanced knowledge of exterior and interior routing Protocols (**OSPF, BGP, EIGRP, VLANs, Trunking**, and **STP**.)
 - **Cloud Networking & Virtualization:** Hands-on experience with **AWS, Azure**, and **VMware**.
 - **Compliance & Standards:** Familiarity with **ISO 27001, NIST**, and other relevant compliance frameworks.
 - **AI/ML-Driven Network Security:** Familiarity with AI/ML-driven network security tools and monitoring solutions.
 - **Stakeholder Management:** Proven ability to collaborate with vendors, stakeholders, and cross-functional teams to drive alignment and achieve desired outcomes.
 - **Documentation & Reporting:** Skilled in generating detailed technical and non-technical documentation and dashboards to communicate network performance, risk, and adherence to standards.
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PROFESSIONAL EXPERIENCE

Professor, Department of Computer Engineering

Ahmadu Bello University (ABU) Zaria | October 2021 – Present

- Conduct advanced research in computer networks, network security, AI ethics, and internet governance.
- Supervise graduate students in network engineering and security projects.
- Publish scholarly articles and present at international conferences.
- Provide leadership and mentoring to young academics and graduate students
- Programme and Curriculum development.

Head, Department of Computer Engineering

Ahmadu Bello University (ABU) Zaria | February 2023 – February 2025

- Lead the department in curriculum development, research, and network infrastructure projects.
- Oversee the design and implementation of large-scale campus networks, ensuring high availability and security.
- Collaborate with stakeholders to align network architecture with institutional goals.

Non-Executive Director & Board Member

African Network Information Centre (AFRINIC) | 2019 – 2022

- Contributed to high-level policy formulations on regional internet issues.
- Chaired the board **Technical Committee**, **Audit Committee**, and, **Finance Committee** ensuring compliance with global standards.
- Played a key role in resource allocation and network governance for Africa.

Director of ICT

IBB University, Lapai | 2015 – 2016

- Designed and implemented the university's ICT infrastructure, including **LAN/WAN**, **wireless networks**, and **firewall solutions**.
- Conducted network performance tuning and security evaluations to ensure optimal performance.
- Managed vendor relationships and cross-functional teams to deliver scalable network solutions.

Head, Network Infrastructure & Security Unit

ICT Directorate, ABU Zaria | 2006 – 2014

- Led the design and deployment of the university's network infrastructure, including **VLANs**, **routing protocols**, and **firewall administration**.
- Conducted root-cause analysis for network issues and implemented effective solutions.
- Ensured compliance with **ISO 27001** and other relevant standards.

Systems & Network Administrator

ICT Directorate, ABU Zaria | 2003 – 2006

- Managed routers, switches, and wireless devices from leading vendors (Cisco, Juniper).
 - Monitored network performance using tools like **SolarWinds** and **Wireshark**.
 - Implemented **VPN solutions** and ensured high availability through redundancy and load balancing.
 - Ensured compliance with **ISO 27001** and other relevant standards
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EDUCATION

- **Ph.D. in Electrical Engineering (Network Security)**
Ahmadu Bello University, Zaria | 2014
 - **M.Sc. in Electrical Engineering (Telecommunication)**
Ahmadu Bello University, Zaria | 2009
 - **B.Eng. in Electrical Engineering**
Ahmadu Bello University, Zaria | 1999
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CERTIFICATIONS

- **Checkpoint Certified Security Administrator** | 2024
 - **Cisco Certified Network Associate (CCNA)** | 2003
 - **Cisco Certified Academy Instructor (CCAI)** | 2006
 - **Certified Mikrotik Engineer** | 2010
 - **Certified Fibre Optics Technician** | 2012
 - **Certificate in Internet Governance** | 2015
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TECHNICAL SKILLS

- **Networking:** OSPF, BGP, EIGRP, VLANs, STP, MPLS, SD-WAN, VPN, WAN topologies.
 - **Security:** Firewalls (Cisco, Palo Alto, Fortinet), IDS/IPS, endpoint security, ISO 27001, NIST.
 - **Cloud & Virtualization:** AWS, Azure, VMware.
 - **Tools:** SolarWinds, PRTG, Wireshark.
 - **AI/ML-Driven Security:** Familiarity with AI/ML-driven network security tools.
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RESEARCH & PUBLICATIONS

- **Ph.D. Research:** Development of a Model for Internal Network Intrusion Detection System for a Multidisciplinary Campus Network: A Case Study of Ahmadu Bello University, Zaria.
 - **M.Sc. Thesis:** Bandwidth Management Using IP Traffic Analysis: A Case Study of Ahmadu Bello University, Zaria.
 - **120+ Research Publications:** Published in international and domestic journals, books, and conferences.
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PROFESSIONAL AFFILIATIONS

- Member, **Computer Professionals of Nigeria**
 - Registered Engineer, **COREN**
 - Member, **Nigeria Computer Society (MNCS)**
 - Member, **Nigerian Society of Engineers (MNSE)**
 - Member, **Institute of Electrical and Electronics Engineers (IEEE)**
 - Member, **Cisco Academy Alumni Community**
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BIO-DATA

- **Date of Birth:** 15th April 1973
- **Town and State of Origin:** Erin-Ile, Kwara State
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REFEREES

Available upon request.